Index of Claims

| Ann | li | catio | n/  | $\overline{C}$ | atro  | No   |
|-----|----|-------|-----|----------------|-------|------|
| 722 |    | cauc  | 111 | COI            | 11101 | INO. |

09/941,853

Examiner

Remmon R. Fordé

Applicant(s)/Patent under Reexamination

CANELLA, ROBERT L.

Art Unit

2826

| √ | Rejected |
|---|----------|
|   | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cli  | aim      | Date      |          |              |          |  | 1              | Claim Date     |    |              |   |          |          |          | ٦:::                  | ١        | Claim Date                               |           |   |                |   |          |    |          |          |                 |                   |     |              |  |          |  |          |               |
|--|----------|-----------|----------|--------------|----------|--|----------------|----------------|----|--------------|---|----------|----------|----------|-----------------------|----------|--|-----------|---|----------------|---|----------|----|----------|----------|-----------------|-------------------|-----|--------------|--|----------|--|----------|---------------|
|  | 1        | 19        |          |              | Π        | Т  | Ī              | Π              | T  |              | 1 |          |          | 4        |                       | П        | Ť  | Ť         | Т   | $\top$         | $\top$  | 7        | ľ  |          |          | П               |                   |     |              |  |          |  |          |               |
| ā  | Original |           |          | ı            |          |  |                |                |    |              |   | <u> </u> | Original | 1        |                       |          |  | - 1       | -   |                | 1   |          |    | ā        | Original | 1               |                   |     |              |  |          |  |          | İ             |
| Final  | rig      | 14        | Į        | ı            | Į.       |  |                | ŀ              |    |              |   | Final    | rig      | 5        |                       |          | -  | - 1       | -   |                | 1   |          |    | Final    | rig      |                 |                   |     | l            |  |          |  |          |               |
|  | 0        | 05        | 1        | ı            | 1        |  |                | l              |    | 1            |   |          | 0        | 4 05     |                       |          |  | - 1       | -   |                | 1   |          |    | _        | 0        |                 |                   |     |              |  |          | i  |          |               |
| <u> </u>   | 1        | 냘         | ┢        | ┝            | ⊢        | ╁  | +              | ╁╌             | +  | +            | ı | 30       | 51       | =        | Н                     | $\dashv$ | $\dashv$                                 | ┪         | +   | -              | ╅   | $\dashv$ | -  |          | 101      | H               | -                 | -   | ├─           | ┢  | Н        | Н  | _        | $\vdash$      |
| <del>                                     </del> | 2        | 干         | ⊢        | ⊢            | ┢        | ╁╌   | ╁              | ╁╌             | ╁  | +-           |   | 31       | 52       | 5        | -                     | $\dashv$ | $\dashv$                                 | $\dashv$  | ╁   | +              | +   | - ◎      | ŀ  | -        | 102      | $\vdash$        | -                 |     | <del> </del> |  | -        | Н  | $\dashv$ | <u> </u>      |
| <u></u>  |          | ┢         | $\vdash$ | ┝            | ┝        | ╁  | ⊢              | ⊢              | ╁  | +            |   |          |          | Н        | _                     | $\dashv$ | $\dashv$                                 | $\dashv$  | +   | _              | +   | -        | 1  |          |          | Н               |                   | -   | Ŀ            | ⊢  | Н        | $\dashv$   | $\dashv$ | $\vdash$      |
| 2  | 3        | 녇         | ⊢        | ├            | ⊢        | ╄  | ╀              | ╀              | ╂- | ╀            | ł | 32       | 53       | ₩        | Н                     | $\dashv$ | $\dashv$                                 | +         | +   | +              | -   | -188     | ŀ  |          | 103      | _               | Н                 |     | <u> </u>     |  |          | Н  | 4        | ⊢             |
| _  | 4        | ⊢         | _        | ⊢            | <u> </u> | ⊢  | ╄              | ╄              | ╄  | 4            |   | 33       | 54       | 1        | Щ                     | _        |  | -         | 4   | -              | -   | 4        | ŀ  |          | 104      | _               | Н                 |     | _            | $\vdash$                                     |          |  | $\dashv$ | <b></b>       |
| 3  | 5        | Ξ         | _        | L            |          | ┺  | _              | <u> </u>       | 1_ | _            |   | 34       | 55       | =        | Ш                     | Ш        | 4  | _         | 4   | 4              |   | _        | L  |          | 105      |                 |                   |     | <u> </u>     | <u> </u>                                     | _        | Щ  |          | <u> </u>      |
|  | 6        | ┖         | ᆫ        | <u> </u>     | <u> </u> | ▙  | ╄              | ▙              | ┺  | _            | ı | <u> </u> | 56       | _        | Ш                     |          | _  | 4         | 4   | 4              | _   | - ◎      | L  |          | 106      |                 | Ц                 |     | ᆫ            | L  | Ш        |  |          | <u> </u>      |
| 4  | 7        | 三         | 匚        | L            | 匚        | <u> </u>   | ╙              | <u> </u>       | L  | ╄-           | ļ | <u> </u> | 57       |          | Щ                     |          | 4  | 4         | ᆚ   | _              |   | 4        | L  |          | 107      |                 | Ш                 |     |              | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          |  |          |               |
| 5  | 8        | 17        |          | L            | L        | L  | <u> </u>       | L              | 1_ |              |   | <u> </u> | 58       | L        | Ш                     |          | Ц  | _         | $\perp$   | $\perp$        |   | _        | L  |          | 108      |                 |                   |     |              |  |          |  |          |               |
| 4  | 9        | Ц         | L        | L            |          | L  | 上              | L              | 上  |              | J |          | 59       | L        | Ш                     |          |  |           |   |                |   |          | Ů. |          | 109      |                 |                   |     |              |  |          |  |          |               |
| 7  | 10       | Ц         |          |              |          |  |                |                |    |              |   |          | 60       |          |                       |          |  |           |   |                |   |          |    |          | 110      |                 |                   |     |              |  |          |  |          |               |
| 8  | 11       | П         |          |              | Ι        |  |                |                |    |              |   |          | 61       |          |                       |          | П  |           |   |                |   |          |    |          | 111      |                 |                   |     |              |  |          |  |          |               |
| 4  | 12       | П         |          |              | Π        | Γ  | Γ              | Γ              | Г  | Т            |   |          | 62       |          | П                     |          | $\neg$                                   | T         | Т   | T              | Ī   |          | Γ  |          | 112      |                 |                   |     |              |  |          | 1  |          |               |
| 10   | 13       | П         |          |              | Γ        | Γ  | Т              | Π              | T  | Τ            | 1 |          | 63       | Г        | П                     | $\neg$   | 7  | 7         | $\top$  | 十              | 十   | 7        | Ţ  |          | 113      |                 | П                 |     |              |  |          |  |          |               |
| 11   | 14       | П         | Г        |              | T-       | T  | T              | T              | 1  | T            |   |          | 64       | Ι        | П                     | $\neg$   | 寸  | $\dashv$  | $\top$  | $\top$         | $\top$  |          | T  |          | 114      | П               | М                 |     | Г            | $\Box$                                       |          | $\Box$   | $\neg$   | <del></del>   |
| 12-  | 15       | Ħ         | Г        | T            | 1        | T  | 1-             | 1              | 1  | 1            | 1 |          | 65       | ऻ        | H                     | $\dashv$ | 7  | $\dashv$  | $\top$  | 十              | 十   | ٦        | ŀ  |          | 115      | П               | М                 |     |              |  | $\Box$   | $\vdash$   | $\dashv$ |               |
| 13   | 16       | TŤ        | ļ        | $I^-$        | T        | $\vdash$   | 1              | t              | 1  | 十            | ı | 35       | 66       | =        | Н                     | $\dashv$ | $\dashv$                                 | 十         | $\top$  | $\top$         | 十   | 1        | H  |          | 116      | Н               | Н                 |     | Н            | $\vdash$                                     | Н        |  | -        | $\vdash$      |
| 141  | 17       | H         |          | $\vdash$     | 一        | t  | t              | t              | ✝  | +            | 1 | 36       | 67       | ==       | Н                     | $\dashv$ | ┪  | -         | +   | +              | $\dashv$  | -        | ŀ  |          | 117      |                 |                   | -   | $\vdash$     |  |          | $\vdash$   | $\dashv$ | _             |
| 15   | 18       | =         | H        |              | ┢        | ┢  | 1              | H              | ╁  | ╁            |   | عد       | 68       | ⊨        | ┤┤                    | $\dashv$ | ⇥  | +         | +   | +              | +   | -        | Ͱ  |          | 118      | Н               | $\vdash$          | -   | ┝            | _  | Н        | $\vdash$   | $\dashv$ | $\vdash$      |
| 17   | 19       | F         | H        |              | ⊢        | ┢  | H              | ⊢              | ╀  | ┿            |   |          |          | -        | ╌┨                    | $\dashv$ | ┰  | $\dashv$  | +   | -              | +   | -        | ⊦  | -        | 119      |                 | Н                 | _   | ┝            | $\vdash$                                     | $\vdash$ |  | $\dashv$ |               |
| 10   |          | Ξ         | -        |              | -        | ╀╌   | Ͱ              | Ͱ              | ╀  | ╀            | ł | ⊢—       | 69       | ⊢        | ┞╼┨                   | $\dashv$ | $\dashv$                                 | +         | +   | +              | +   | -        | ႃ  |          |          | $\vdash$        |                   | Щ,  | ⊢            | ⊢  | Н        | $\vdash$   | $\dashv$ | <u> </u>      |
| 16   | 20       | 赤         | -        | _            | ⊢        | ⊢  | ⊢              | ╄              | ╀  | +            |   | $\vdash$ | 70       | ⊢        | Н                     | $\dashv$ | $\dashv$                                 | -         | +   | -              | +   | -        | ŀ  |          | 120      | Н               | Н                 |     | ⊢            | <u> </u>                                     | Н        | Ш  | _        | <u> </u>      |
| 17   | 21       | ₩         | <u> </u> |              | ⊢        | ▙  |                |                | ╀  | ╄            |   | $\vdash$ | 71       | ┡        | Н                     | -        | -  | -         | 4   | -              | +   | -        | ůL |          | 121      | Н               |                   |     | <u> </u>     |  | Щ        | $\Box$   |          | <u> </u>      |
| 18   | 22       | Н         | <u> </u> |              | ┞        | <u> </u>   | ╄              | ┞              | ╄  | _            |   | ldash    | 72       | ┞        | Щ                     | $\dashv$ | -  | 4         | 4   | 4              | _ _   | _        | Ĺ  |          | 122      | Ш               | Ц                 | L., | <u> </u>     |  |          | _  | _        | L             |
| 19   | 23       | Ш         |          |              | L        | _  | ┞              | ┖              | _  | <del> </del> | Į |          | 73       | L        | Щ                     | $\Box$   | _  | 4         | 4   | _              |   | _        | L  |          | 123      |                 | Ш                 |     | L            | L  | Щ        |  |          |               |
| 20   | 24       | Ш         |          |              | ┞        | <u> </u>   | ļ              | ┖              | ↓_ | 4            |   |          | 74       | L        | Ш                     | $\Box$   | 4  | 4         | 4   | 4              |   | _        | L  |          | 124      | Щ               | Ш                 |     | 匚            | Ш  |          |  |          | <u> </u>      |
| 21   | 25       | \$        |          | L            | L        | L  | <u> </u>       |                | L  |              |   |          | 75       |          | Щ                     | _        | _  | _         | 4   | _ _            |   | _        | L  |          | 125      |                 |                   |     | 匚            | Ш  |          |  |          | L_            |
| 22   | 26       | =         | Ш        | _            | 乚        | 乚  | 上              | L              |    |              |   |          | 76       | L        | Ш                     |          |  |           |   |                |   | ┛        | L  |          | 126      |                 |                   |     | L            | Ш  |          |  |          | <u> </u>      |
|  | 27       | _         |          |              | L        | Ŀ  | L              | L              |    |              |   |          | 77       | L        |                       | i        |  |           |   |                |   | _        | L  |          | 127      |                 |                   |     | <u>L</u> .   |  |          |  |          | <u> </u>      |
|  | 28       | L         |          |              |          |  |                |                |    |              |   |          | 78       |          |                       |          |  |           |   |                |   | _        | L  |          | 128      |                 |                   |     |              |  |          |  |          |               |
|  | 29       |           |          |              |          |  |                |                | ľ  | T            |   |          | 79       |          |                       |          | П  | Т         | Т   | Т              | Т   | 788      | Γ  |          | 129      |                 |                   |     |              |  |          |  |          |               |
|  | 30       |           |          |              |          | Γ  |                |                | П  | Т            |   |          | 80       |          |                       | T        | T  | Т         |   | $\neg$         | Т   | 7        | ſ  |          | 130      |                 |                   |     |              |  |          | T  |          |               |
|  | 31       | Г         |          |              |          |  | Г              | Π              |    | 1            |   |          | 81       |          |                       |          |  |           | T   | 1              | $\top$  | 7        | Γ  |          | 131      |                 |                   |     |              |  |          |  |          |               |
|  | 32       |           |          |              | Π        | Ι.   | T              | 1              | Т  | T            |   |          | 82       |          |                       | 寸        | 7  | 十         | 十   | 十              | 7   | 7        | T  |          | 132      |                 |                   |     |              |  |          |  |          |               |
|  | 33       |           |          | i            |          | Г  | T              | Γ              | 1  | 1            |   |          | 83       |          | H                     | 寸        |  | $\dashv$  | 十   | 十              | $\top$  | 7        | 1  | $\neg$   | 133      |                 | $\Box$            |     |              | П  | $\vdash$ | $\neg$   | $\neg$   |               |
|  | 34       | Г         |          | $\vdash$     | Т        | t  | T              | r              | 1  | T            |   | М        | 84       |          | H                     | 寸        | 一  | $\dashv$  | 十   | 十              | +   | ┪        | ۲  | 一        | 134      |                 | $\Box$            |     |              | Н  | Н        | $\dashv$   | $\dashv$ |               |
|  | 35       | T         |          | $\vdash$     | T        | T  | t              | T              | 1  | t            |   |          | 85       | 1        | $\vdash$              | $\dashv$ | $\dashv$                                 | $\top$    | $\dashv$  | 十              | $\top$  | ∰        | t  | 一        | 135      | -               | $\vdash$          | -   | Т            | Н  | $\vdash$ | $\dashv$   | $\neg$   | _             |
|  | 36       | $\vdash$  | $\vdash$ | _            | $\vdash$ | ╁  | t              | t              | t  | +            |   |          | 86       | $\vdash$ | H                     |          | ᆉ  | $\dashv$  | +   | $\dashv$       | +   | ┨:::     | ⊩  | $\dashv$ | 136      | $\vdash$        | ┥                 |     | -            | Н  |          | $\dashv$   | -        |               |
| -  | 37       | $\vdash$  | $\vdash$ | Ι            | $\vdash$ | t  | $\vdash$       | $\vdash$       | +  | +            |   |          | 87       | $\vdash$ | $\vdash$              | $\dashv$ | -+                                       | +         | +   | +              | +   | ┨░       | ╟  | -        | 137      | $\vdash$        | -                 |     | -            |  |          | $\dashv$   |          |               |
|  | 38       | $\vdash$  | $\vdash$ | <del> </del> | $\vdash$ | $\vdash$   | ┢              | $\vdash$       | ╁  | +            |   |          | 88       | -        | $\vdash \vdash$       | $\dashv$ | -+                                       | +         | +   | +              | +   | -        | ŀ  |          | 138      |                 |                   |     | <u> </u>     | Н  | $\vdash$ | $\dashv$   | $\dashv$ | $\overline{}$ |
| -  | 39       | ┥         | -        | <del> </del> | $\vdash$ | <del>                                     </del> | $\vdash$       | $\vdash$       | +  | +            | l | $\vdash$ | 89       | $\vdash$ | $\vdash$              |          | -  | +         | +   | +              | +   | -        | ŀ  |          | 139      | $\vdash\vdash$  | $\vdash$          | _   | _            | $\vdash$                                     |          | -  | $\dashv$ | $\vdash$      |
| -  | 40       | $\vdash$  | -        | -            | ╁        | ┢  | ╁              | $\vdash$       | ⊢  | +            | l |          | 90       | $\vdash$ | ${oldsymbol{ecture}}$ | $\dashv$ | +  | -+        | +   | - -            | +   | -        | ŀ  |          | 140      | $\vdash$        | $\vdash$          | _   | -            | $\vdash$                                     | $\dashv$ | $\dashv$   |          | <b>⊢</b>      |
| -  |          | ├-        | Н        | -            | $\vdash$ | ⊢  | 1              | ⊢              | ╀  | ╀            |   | $\vdash$ |          | $\vdash$ | $\vdash$              | -        |  |           | +   | +              | +   | -        | ŀ  | $\dashv$ |          | $\vdash$        | $\dashv$          |     | $\vdash$     | Н  |          | $\dashv$   |          | -             |
|  | 41       | $\vdash$  | Н        | _            | ⊢-       | $\vdash$   | ├-             | <del> </del> — | ╄  | ┼-           |   | <b> </b> | 91_      | ⊢        | Н                     | _        | -  | +         | 4   | +              | +   | -        | ŀ  |          | 141      | $\vdash \vdash$ | $\sqcup$          |     | <u> </u>     | Ш  |          | _  | 4        | <u> </u>      |
|  | 42       | $\vdash$  | Н        | _            | -        | ├  | <del> </del> — | ├-             | ⊢  | ┼            |   |          | 92       | <b> </b> | Н                     | _        | 4  | 4         | +   | +              | +   | -        | L  |          | 142      |                 |                   |     | L            |  |          |  | _        |               |
|  | 43       | L         | Ш        | _            | <u> </u> | <u> </u>   |                |                | ┺  | ╄            |   | <u> </u> | 93       | <u> </u> | Ц                     | _        | _  | $\dashv$  | 4   | $\bot$         | 4   | _        | L  |          | 143      | Ш               | Ц                 |     | Щ            | Ш  |          | $\Box$   | _        | <u> </u>      |
| 2-3  | 44       | =         | Щ        | _            | <b>L</b> | ⊢  | ↓_             | ╙              | ┺  | ↓_           |   | <u> </u> | 94       | $\vdash$ | Щ                     | _        | _  | 4         | 4   | $\bot$         | 4   | 4        | Ĺ  |          | 144      | Ш               | _                 |     |              | Ш  |          |  |          | <u> </u>      |
| 24   | 45       | Щ.        | Ш        |              | _        | ∟  | <u> </u>       | $\vdash$       | 丄  | 1            |   |          | 95       | <u> </u> | Ш                     |          |  | $\bot$    | $\perp$   | $\perp$        | ┸   | _ ∭      | ŝL |          | 145      | Ш               | $oldsymbol{\bot}$ |     |              |  |          | $oldsymbol{ol{ol{oldsymbol{ol}}}}}}}}}}}}}}}}$ |          |               |
| 25   | 46       | Ш         |          |              |          | L  | L.             | Ш              | 1_ | _            |   | لــــا   | 96       | Ш        | Ш                     | ┙        | ᆚ  |           | ᆚ   |                | $\perp$   | _        | Ĺ  |          | 146      | Ш               |                   |     |              | Ш  |          |  |          |               |
| 3€<br>37   | 47       | Ш         | L        | L            | L        | L  | L              | L              | L  | L            |   |          | 97_      | L        | Ш                     | $\Box$   |  |           | $\perp$   | ╧              |   |          | L  | I        | 147      |                 | I                 |     |              |  |          |  |          |               |
| 27   | 48       | $\coprod$ |          |              |          | L  | L              | L              | L  |              |   |          | 98       |          | ╚                     | $\Box$   | $ \_                                   $ | ot        | $\prod$   | $\Box$         | Ĺ   | _](((()  |    | T        | 148      |                 |                   |     |              |  |          |  |          |               |
| 28   | 49       | تأو       |          |              |          |  |                | $L^-$          | Ĺ  | L            |   |          | 99       |          |                       |          | $\Box$                                   | $oxed{T}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $oxed{\Gamma}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Gamma}}}$ | ]#       | ſ  |          | 149      |                 |                   |     |              |  |          | _7   |          |               |
| 29   | 50       | =         |          |              | Γ        | Γ  | Γ              | Γ              | Γ  | Τ            | l |          | 100      |          |                       |          | П  | Т         | T   | T              |   | 7        | Γ  |          | 150      |                 |                   |     |              |  |          |  | $\neg$   |               |